

Highlights



Children
Paralyzed
by polio



Sewage
water
sampling

2021

- 05 cases of Wild Polio 1
 - 04 in Afghanistan
 - 01 in Pakistan

- 118 cases of cVDPV2
 - 43 in Afghanistan
 - 08 in Pakistan
 - 01 in Somalia
 - 66 in Yemen

- 03 cVDPV1 cases
 - All in Yemen

2021

- 66 samples Wild Polio 1
 - 01 in Afghanistan
 - 65 in Pakistan

- 107 samples cVDPV2
 - 40 in Afghanistan
 - 35 in Pakistan
 - 12 in Egypt
 - 01 in Iran
 - 01 in Somalia
 - 05 in Djibouti
 - 13 in Yemen

2022

- 21 cases of Wild Polio 1
 - 02 in Afghanistan
 - 19 in Pakistan

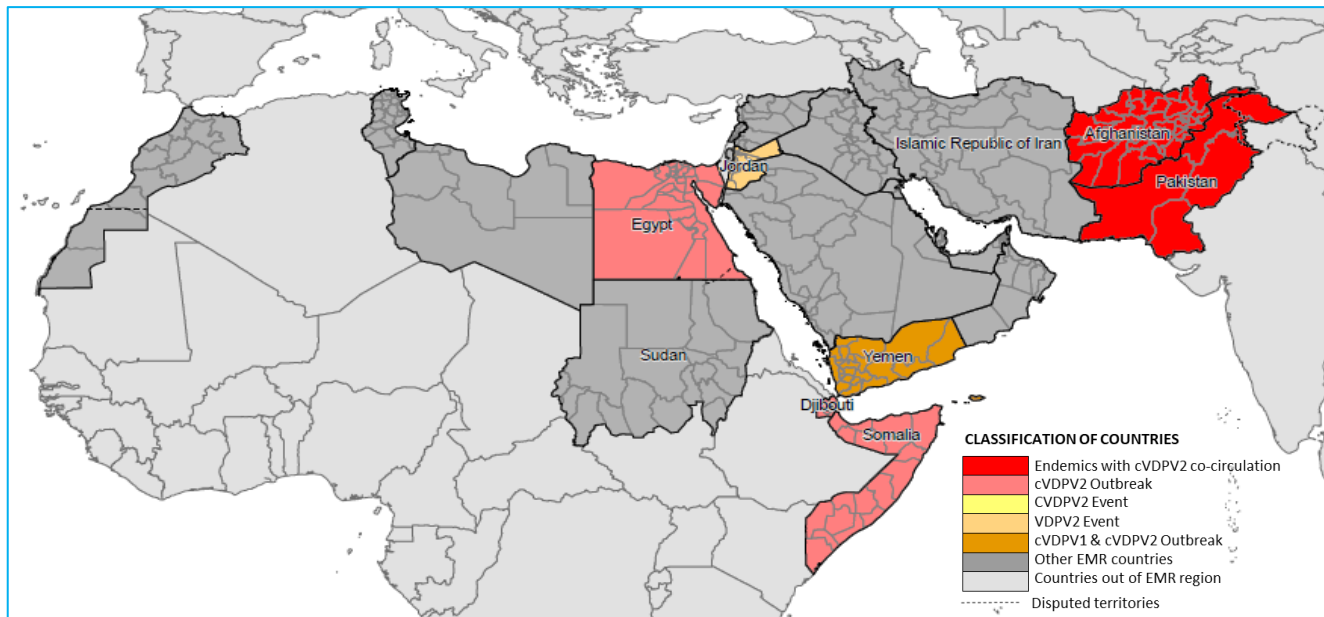
- 142 cases of cVDPV2
 - 03 in Somalia
 - 139 in Yemen

- Zero case of cVDPV1
(No cVDPV1 for the last 17 months)

2022

- 30 samples Wild Polio 1
 - 03 in Afghanistan
 - 27 in Pakistan

- 24 samples of cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 03 in Yemen



Highlights of the week

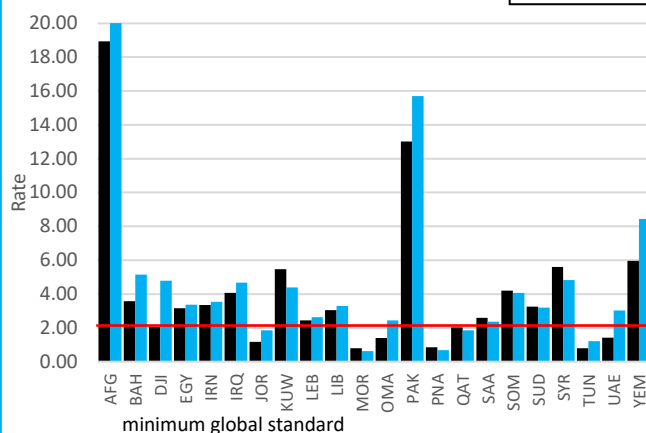
Afghanistan: One new WPV1 environmental Isolate was reported this week. The Isolate is from environment site in Asadabad district, Kunar province, with specimen collection 04 September 2022.

Pakistan: Four new reported WPV1 environmental Isolates this week. Three from Khyber Pakhtunkhwa province: one each from South Waziristan, Peshawar and Bannu districts with specimen collection ranging between 01 – 07 September 2022, the other is from Punjab Province, Rawalpindi district with date of onset 08 September 2022.

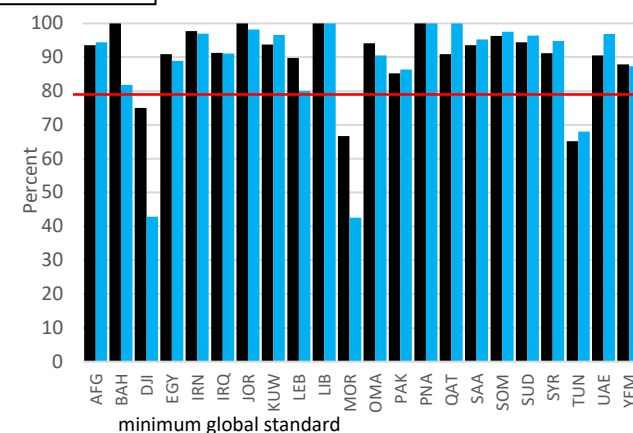
Yemen: Twelve new VDPV2 cases reported from 7 provinces: four cases from Sanaa City, two from each of Dhamar and Ibb, one each from Sanaa, Hajjah, Amran and Almahawet. Dates of onset ranges between 14 March and 05 August 2022.

Egypt: One new cVDPV2 Isolate from Samal M. Naser District, Cairo province with date of collection 29 August 2022

Non polio AFP rate

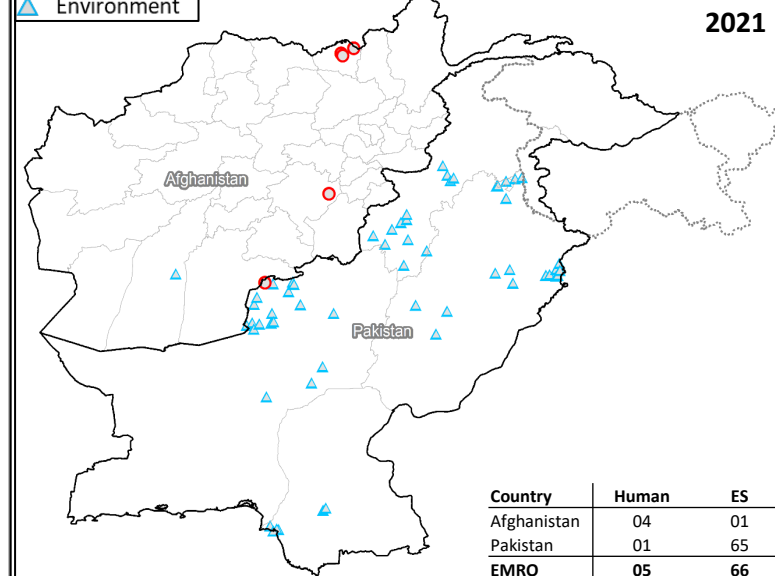
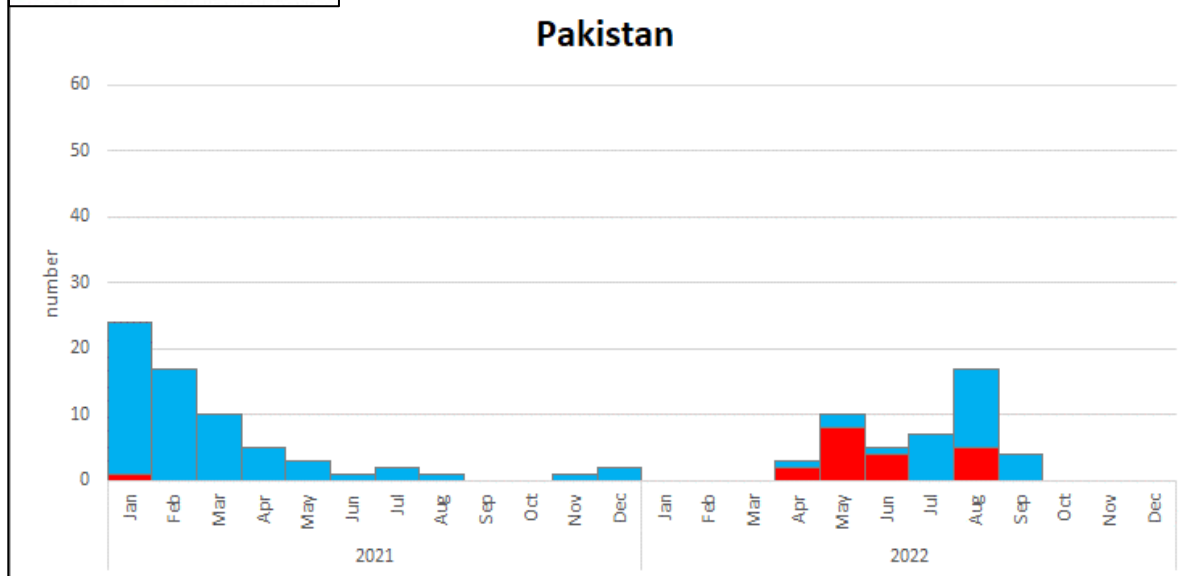
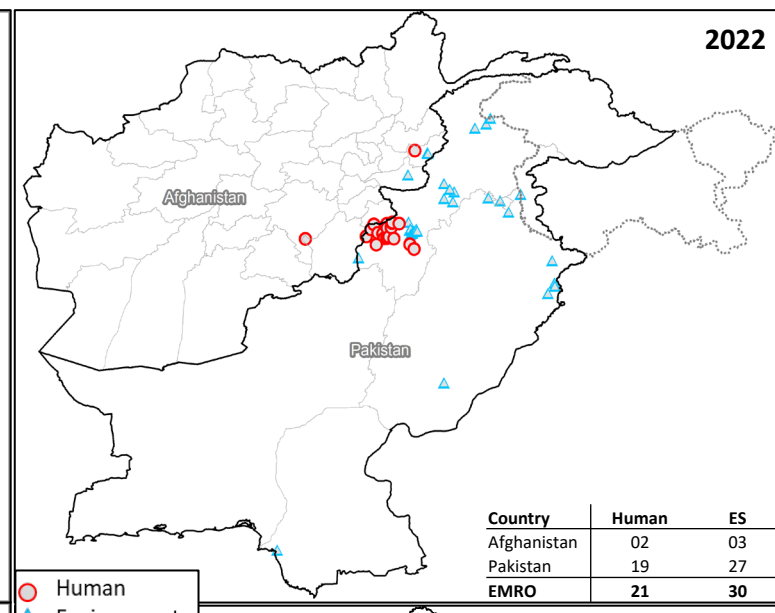
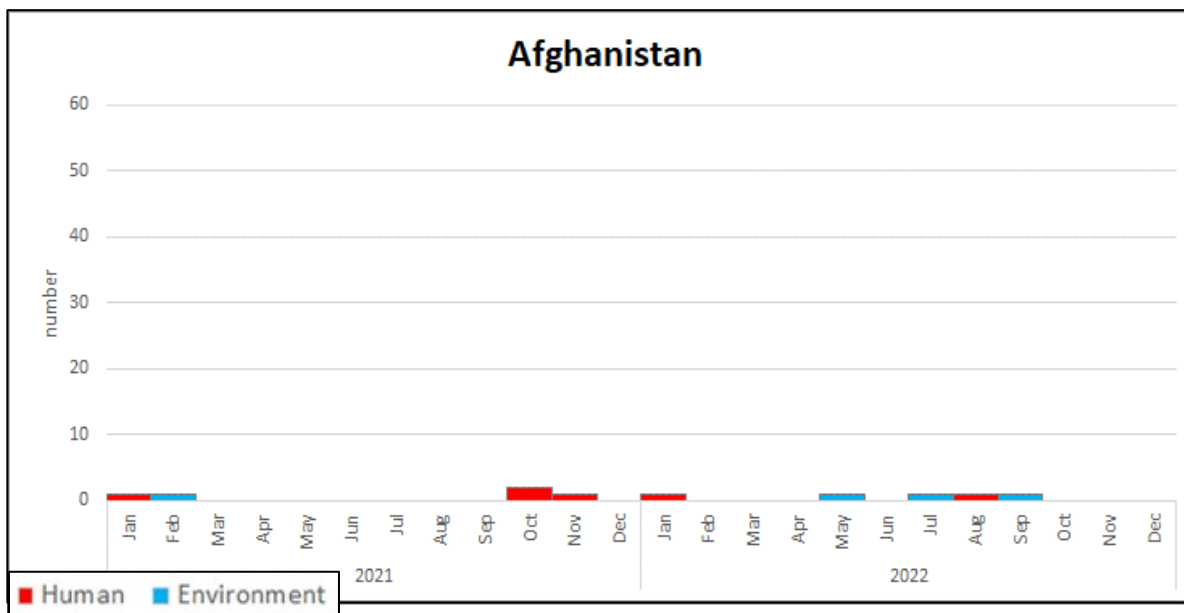


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Sep 25, 2021 to Sep 25, 2022)

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Source / Virus type	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
Human (AFP only)	6		19				3	203	231
Wild	5		19						24
cVDPV2							3	200	203
aVDPV2	1							3	4
VDPV2									
Environment	3	17	36	11	2	3	4	13	89
Wild	3		30						33
cVDPV2		17		7			3	13	40
aVDPV2			6		1				7
VDPV2				4	1	3	1		9
Total	9	17	55	11	2	3	7	216	320

Note: Viruses isolated from 'other' sources (example healthy children) are not included in this analysis; they are shown in page No. (8)

Confirmed Wild Polio 1 Cases by month of onset

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Country	Total year 2020	Total year 2021	18 Sep.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021			2022									
			2021	2022	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Afghanistan	56	4	1	2	2	1	0	1	0	0	0	0	0	0	1		29-Aug-22
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Egypt	0	0	0	0	0	0	0	0	0	0	0		0				
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Iraq	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Jordan ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0					
Libya	0	0	0	0	0	0	0	0	0	0	0	0					
Morocco	0	0	0	0	0	0		0	0	0	0						
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	84	1	1	19	0	0	0	0	0	0	2	8	4	0	5		25-Aug-22
Palestine ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Qatar	0	0	0	0	0	0	0	0	0	0	0	0		0	0		
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Somalia	0	0	0	0	0	0	0	0		0		0	0				
Sudan	0	0	0	0	0	0	0	0	0	0			0				
Syria ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0					
Yemen	0	0	0	0	0	0	0	0	0	0	0	0					
EMR	140	5	2	21	2	1	0	1	0	0	2	8	4	0	6	0	29-Aug-22

**** UNRWA cases are included with those of country of residence

Investigation of AFP cases with paralysis onset in 2021 & 2022

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COUNTRY	2021									2022									Line List 2022
	AFP cases	Case classification						Surveillance indicators		AFP cases	Case classification						Surveillance indicators		Date of latest
		Total Confirmed WPV1 Polio Cases *	Polio Compatible	Discarded (non polio AFP)	VDPV ****	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate	% with adequate specimens ***		Total Confirmed WPV1 Polio Cases *	Polio Compatible	Discarded (non polio AFP)	VDPV ****	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate **	% with adequate specimens ****	
Afghanistan	4088	4	1	4038	45	0	0	18.71	94	3796	2	0	3534	1	27	0	23.90	94	18-Sep-22
Bahrain	11	0	0	11	0	0	0	3.25	100	11	0	0	7	0	2	0	5.00	82	18-Sep-22
Djibouti	8	0	0	8	0	0	0	2.06	75	14	0	0	14	0	0	0	4.67	43	18-Sep-22
Egypt	1251	0	0	1250	1	0	0	3.17	91	949	0	0	852	0	11	1	3.27	91	15-Sep-22
Iraq	709	0	0	709	0	0	0	4.07	91	595	0	0	497	0	64	0	4.64	91	18-Sep-22
Islamic Republic of Iran	681	0	0	680	1	0	0	3.36	97	538	0	0	507	0	0	0	3.60	97	17-Sep-22
Jordan	47	0	0	47	0	0	0	1.19	100	56	0	0	55	0	0	0	1.85	96	08-Sep-22
Kuwait	48	0	0	48	0	0	0	5.47	92	29	0	0	25	0	1	1	4.27	97	11-Sep-22
Lebanon	39	0	0	39	0	0	0	2.45	90	32	0	0	20	0	6	0	2.73	81	10-Sep-22
Libya	79	0	0	79	0	0	0	3.05	100	61	0	0	51	0	2	2	3.15	100	17-Sep-22
Morocco	78	0	0	78	0	0	2	0.80	64	47	0	0	18	0	17	2	0.62	43	16-Sep-22
Oman	17	0	0	17	0	0	0	1.41	94	21	0	0	20	0	0	0	2.38	90	18-Sep-22
Pakistan	13118	1	4	13095	18	0	1	12.99	85	11838	19	1	10598	0	198	0	15.96	86	18-Sep-22
Palestine	16	0	0	16	0	0	0	0.85	100	10	0	0	7	0	0	0	0.68	100	18-Sep-22
Qatar	11	0	0	11	0	0	0	1.80	91	6	0	0	5	0	1	1	1.81	100	18-Sep-22
Saudi Arabia	217	0	0	217	0	0	0	2.58	94	149	0	0	110	0	1	0	2.35	95	18-Sep-22
Somalia	349	0	0	348	1	0	0	4.20	96	249	0	0	210	3	0	2	4.04	98	18-Sep-22
Sudan	636	0	0	636	0	0	0	3.26	94	472	0	0	405	0	14	2	3.30	97	08-Sep-22
Syrian Arab Republic	431	0	0	431	0	0	0	5.60	91	277	0	0	256	0	0	0	4.90	95	17-Sep-22
Tunisia	23	0	0	23	0	0	0	0.81	65	25	0	0	23	0	1	1	1.18	68	16-Sep-22
United Arab Emirates	21	0	0	21	0	0	0	1.42	86	32	0	0	0	0	23	1	2.95	97	13-Sep-22
Yemen	921	0	0	849	72	0	0	5.50	88	950	0	0	611	139	15	2	7.16	88	17-Sep-22
EMR POL	22799	5	5	22651	138	0	3	7.91	88	20157	21	1	17825	143	383	15	9.49	89	

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, with 14 days of paralysis onset and specimens received in the lab in 'Good Condition'

**** Includes all VDPV cases. Further details available in page (8)

For further details on Contacts click: [detail of contact samples](#)

Laboratory investigation of AFP cases with paralysis onset in 2022

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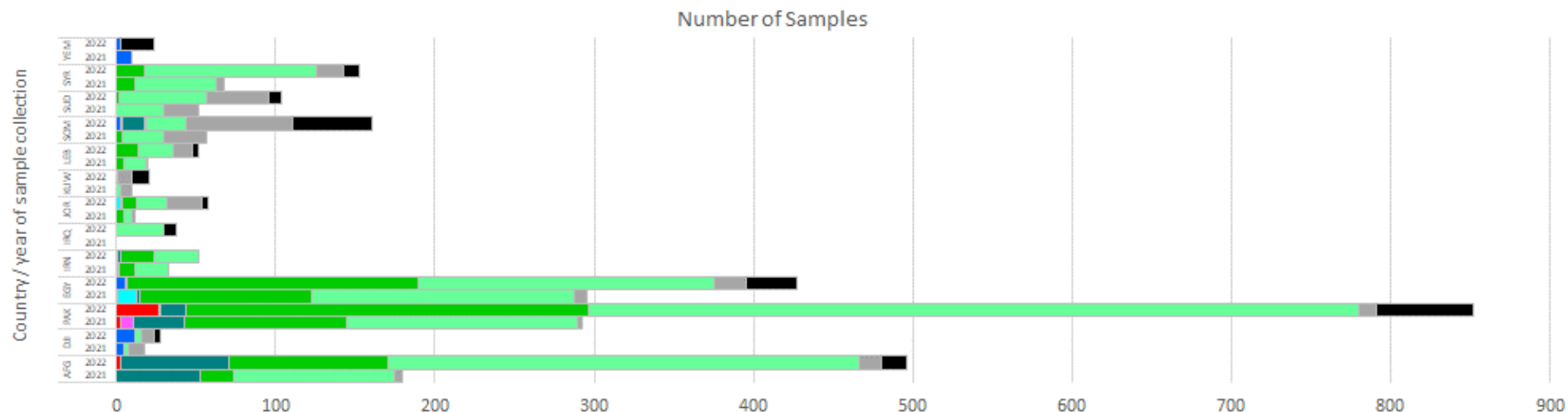
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results											Indicators				Latest report Date		
	ITD Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive for NPEV*	% AFP cases with culture results within 14 days		% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**
	Sequencing performed by CDC and RIVM laboratories		L 20B+	L20B+/NPEV	received within last 14 days	received more than 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV											
Afghanistan	RRL Pakistan	3738	219	36	667	2647	146		2	164			8			184			2			16%	96%	100%	99%	25-09-22
Bahrain	PNL Oman	9				9															0%	100%		100%	22-09-22	
Djibouti	PNL Kenya	14	2		4	8				2			2			2					29%	71%		71%	23-09-22	
Egypt***	RRL Egypt	933	18	5	134	730	32	14		8						13			2	2	12%	99%	100%	99%	22-09-22	
Iran	PNL Iran	543	9		5	522	7			4	1					6					1%	100%	100%	98%	25-09-22	
Iraq	PNL Iraq, RRL Egypt	597	2		53	524	16	2								2					9%	100%	50%	99%	24-09-22	
Jordan	PNL Jordan, RRL Tunisia	56	2		13	36	1	4								2					27%	100%	100%	100%	25-09-22	
Kuwait	RRL Kuwait	35	2			29	2	2		1						1					3%	100%	100%	100%	20-09-22	
Lebanon	RRL Egypt	28	1			24	3														0%	100%			22-09-22	
Libya	RRL Tunisia	64			1	63															2%	100%		100%	14-09-22	
Morocco	PNL Morocco, RRL Tunisia	38			3	35															9%	100%		92%	16-09-22	
Oman	PNL Oman	23			3	19	1														15%	82%		100%	22-09-22	
Pakistan	RRL Pakistan	11596	343	48	2178	8365	635	22	16*	190			1			288			5		16%	97%	99%	96%	24-09-22	
Palestine & UNRWA		10				9		1													0%	33%		89%	15-09-22	
Qatar	RRL Kuwait	6	1			5				1											0%	83%	0%	100%	20-09-22	
Saudi Arabia	PNL Saudi Arabia, NPL Oman	147	2		3	140		2								2					3%	92%	50%	98%	19-09-22	
Somalia	PNL Kenya	241	9	1	40	165		29		2			9	1							19%	8%		99%	23-09-22	
Sudan	PNL Sudan, RRL Egypt	475	8		120	324	21	2										1			26%	70%	100%	22%	22-09-22	
Syria	PNL Syria, RRL Egypt	269	2		14	234	18	1													5%	100%			22-09-22	
Tunisia	RRL Tunisia	26				25		1													1%	100%		96%	14-09-22	
U.A.E	PNL Oman	30				27	3														0%	81%		63%	22-09-22	
Yemen	PNL Oman, RRL Egypt	804	164	3	109	483		46		8			8	135**		19					15%	32%	32%	3%	22-09-22	
Total EMR 2022		19682	784	93	3347	14423	885	126	21	380	1		28	131		519		1	7	2	2	15%	92%	86%	93%	
Total EMR 2021		22113	1183	128	3874	16919		5	5	478	7		363	117		599	1	1	7	2	2	14%	97%	97%	93%	

* Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

** Four cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

Environmental Surveillance Isolation by Classification

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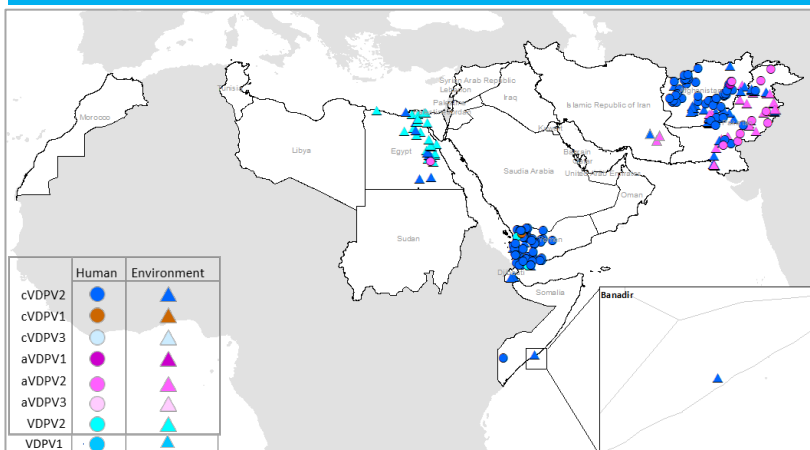


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SOM		SUD		SYR		YEM	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild		3			3	27																				
cVDPV2			5	12			1	6											3					10	3	
Wild+cVDPV2																										
Wild+aVDPV2																										
Wild+aVDPV3																										
aVDPV1																										
aVDPV2					8	1			1																	
aVDPV3																										
VDPV1																										
VDPV2							12	1	1				3						1							
SL2	53	68			32	16	2		1	2			1					14								
SL1/3	21	100			102	252	108	183	10	21			5	9			5	14	4	1		2	12	18		
Enteric	101	295	3	4	144	484	164	185	21	28		30	5	19	3	1	14	22	26	25	30	55	51	108		
Negative	5	14	10	8	3	11	8	20					2	22	7	9	1	12	27	67	22	39	5	17		
Pending		16		4		61		32				8		4		11		4		50		8		10		21

VDPVs isolations by Source and Country

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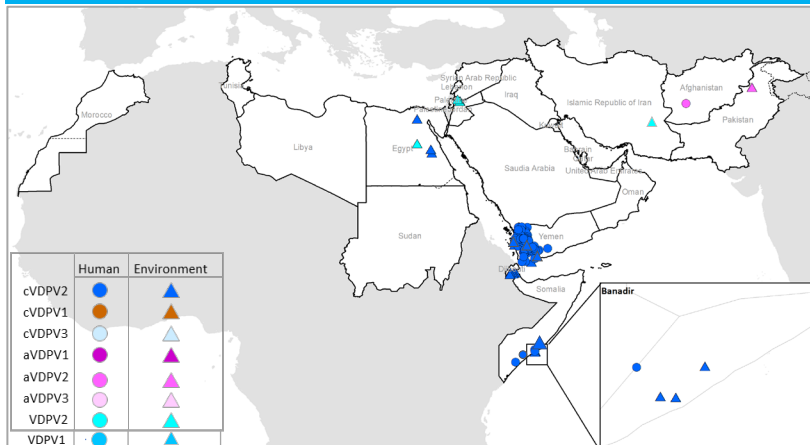
VDPV Isolates, EMR countries, 2021



VDPVs isolated from 2017-2022

VDPV Isolate type	EMR Country	Sources																											
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)									
		2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent
cVDPV2	Afghanistan				307	43		09-07-21											174	40		23-06-21							
	Djibouti																		5	12		22-05-22							
	Egypt																		12	6		29-08-22							
	Iran																		3	1		20-02-21							
	Pakistan			22	135	8		23-04-21										38	135	35		11-08-21							
	Somalia		6	3	14	1	3	14-05-22		3	1	11		3	22-02-22	2	19	5	26	1	3	19-05-22			1	5		1	10-03-22
	Sudan				58			18-12-20				18			08-10-20				14			09-11-20				4			24-08-21
	Syria	74						21-09-17	63						12-09-17								4						20-08-17
Yemen				66	139		05-08-22				23	33		21-05-22				13	3		31-01-22								
cVDPV1	Yemen			1	31	3		27-03-21			2			10-07-19															
cVDPV3	Somalia		7					07-09-18		7				30-06-18		12					23-08-18								
aVDPV1	Afghanistan					1		22-02-21																					
	Egypt																	1			16-07-20								
	Pakistan																		1		10-02-21								
	Somalia				1			26-01-20																					
	Yemen					1		20-07-21																					
aVDPV2	Afghanistan				3	1	1	01-01-22				75	15	1	14-02-22				2	3		25-07-21							
	Egypt					1		30-05-21					1		14-06-21				1			21-09-21							
	Iran																		2			23-09-21							
	Pakistan				7	8		24-09-21			8	19	1		28-04-21	5		3	22	37	1	15-02-22							
	Somalia																2	1				03-02-19							
	Yemen					3		01-11-21				1			09-12-21														
aVDPV3	Afghanistan				1			23-06-20																					
	Egypt																	2			30-09-20								
	Pakistan																		1		05-04-21								
	Libya				1			15-01-20																					
VDPV1	Egypt																	1			11-07-21								
VDPV2	Egypt																		67	1		12-01-22							
	Iran																			1		04-02-22							
	Jordan																			3		25-05-22							
	Pakistan																			1		15-02-22							

VDPV Isolates, EMR countries, 2022



Important links

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Important Links

- [Global Polio Eradication Initiative](#)
- [IMST – Outbreak Response Dashboard](#)
- [nOPV2 Tracker](#)
- [Pol-MIS](#) (restricted to registered users)
- [Containment](#) (restricted to registered users)